

## **Appendix A**

### **Pending Claims U.S. Application No. 09/856,322**

17. A biological tissue comprising endothelial cells which may be induced to generate a compound which down-regulates the expression of a cell adhesion molecule by the cells, the compound being either (a) a polynucleotide complementary in sequence to part of the gene or mRNA that encodes the cell adhesion molecule, (b) a polynucleotide comprising a ribozyme sequence that specifically targets a gene or mRNA that encodes the cell adhesion molecule, or (c) a peptide or polypeptide with specific binding affinity for the cell adhesion molecule.
18. A tissue according to claim 17, wherein said polypeptide (c) is a bispecific fusion protein.
19. A polypeptide comprising a binding region capable of binding to a cell adhesion molecule and a signalling region for subcellular targeting of the polypeptide such that it is not transported to the cell surface.
20. A polypeptide according to claim 19, which comprises an antibody or antibody fragment.
21. A polypeptide according to claim 20, which comprises a single chain Fv fragment.
22. A polypeptide according to claim 19, wherein the signalling region for subcellular targeting of the polypeptide comprises a localisation signal for the endoplasmic reticulum.
23. A polypeptide according to claim 22, wherein the signalling region comprises the

amino acid sequence KDEL at the C terminus of the polypeptide.

24. A polypeptide according to claim 19, wherein said binding region has affinity for any one of the adhesion molecules VCAM-1, ICAM-1, LFA-1, CD2, PECAM, CD31, IAP, CD47 or integrin  $\alpha\beta$ 3.
25. A polynucleotide encoding a polypeptide according to claim 19.
26. A vector comprising a polynucleotide according to claim 25.
27. A cell comprising a polynucleotide according to claim 25 or a vector according to claim 26.
28. Biological tissue comprising a cell according to claim 27.
29. A non-human animal comprising biological tissue according to claim 28 and/or a cell according to claim 27.
30. An animal according to claim 29, wherein said animal is a transgenic pig or sheep.
31. A method of rendering a tissue or organ suitable for transplantation, comprising expressing a polypeptide according to claim 19 in endothelial cells in said tissue or organ, thereby down-regulating the expression of a cell adhesion molecule.
32. A method of transplantation, comprising transplanting biological tissue according to claim 28 from a donor animal into a recipient animal.